

PRODUCTION OF HOT DIP GALVANIZED STEEL SHEET HAVING SUPERIOR BLACKENING RESISTANCE

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Abstract of JP2101176

PURPOSE: To produce a hot dip galvanized steel sheet having superior blackening resistance by successively subjecting a hot dip galvanized steel sheet to skin pass processing at a specified drawing rate, treatment with a soln. contg. Ni or Co ions and chromating. **CONSTITUTION:** A steel sheet is hot dip galvanized with a molten Zn alloy bath consisting of 0.10-0.30wt.% Al, <0.1wt.% Pb, 0.10-0.30wt.% Sb and the balance Zn to form a Zn layer on the surface of the steel sheet. After skin pass processing at 0.3-1.5% drawing rate as required, the steel sheet is treated with an aq. soln. contg. a proper amt. of Ni and/or Co ions in the form of water soluble salts of Ni and/or Co such as sulfates, chlorides, nitrates or citrates. The steel sheet is then treated with a soln. contg. CrO₃ to form a chromate coating film. The blackening preventing effect of the hot dip galvanized steel sheet is enhanced and blackening with the lapse of time is prevented.

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